JUL 1 5 2004

Robert C. Colwell, Reg. No. 27,431

Atty Docket No. 16869P-105800US

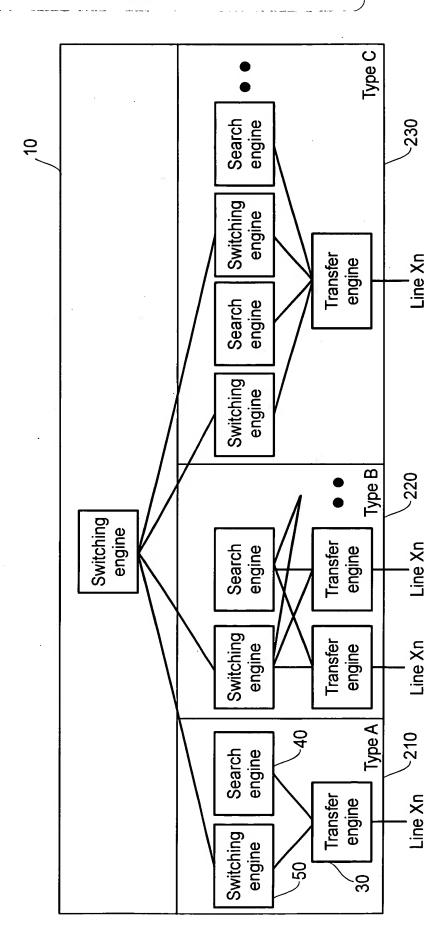
Applicant: Takayuki MURANAKA, et al.

Appln. No. 10/782,530 Confirmation No. 3235

(650) 326-2400

Title: Network Routing Apparatus

Sheet 1 of 10



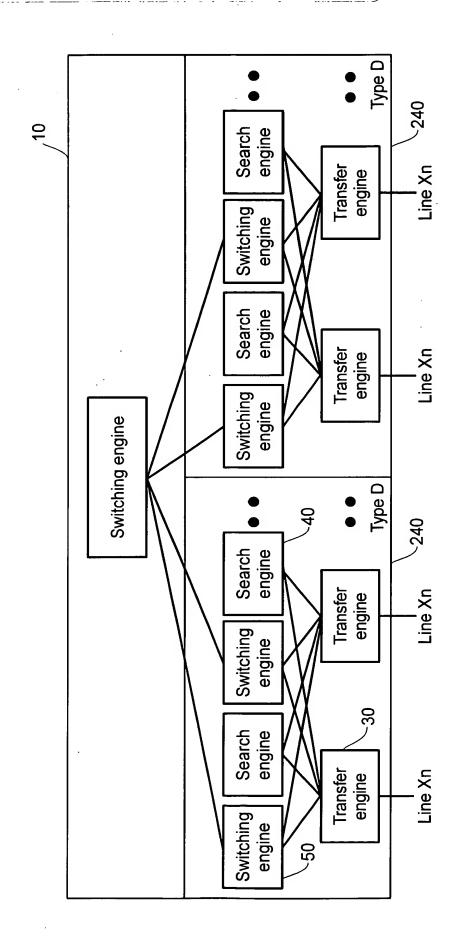
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(650) 326-2400 Robert C. Colwell, Reg. No. 27,431 Appln. No. 10/782,530 Applicant: Takayuki MURANAKA, et al. Atty Docket No. 16869P-105800US Confirmation No. 3235 Title: Network Routing Apparatus Sheet 3 of 10 Search engine 8 <u>(၁</u> Transfer engine 0-31∤ Transfer engine 0-31 39 Search engine >0-63 80 **a** 0-63 0-63 Transfer engine Transfer engine 3 Search engine 80 <u>a</u>

> Transfer engine

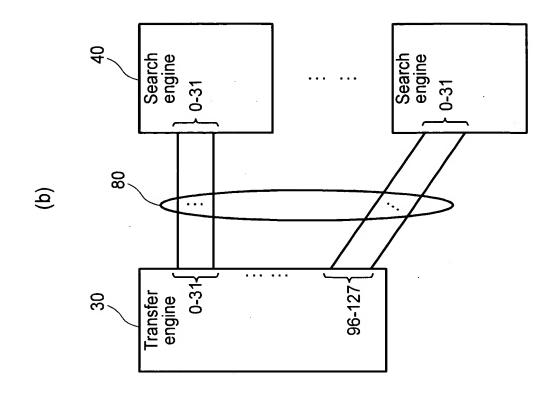
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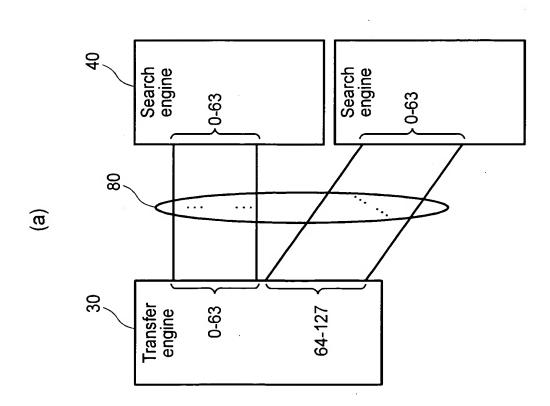
Applicant: Takayuki MURANAKA, et al. Appln. No. 10/782,530

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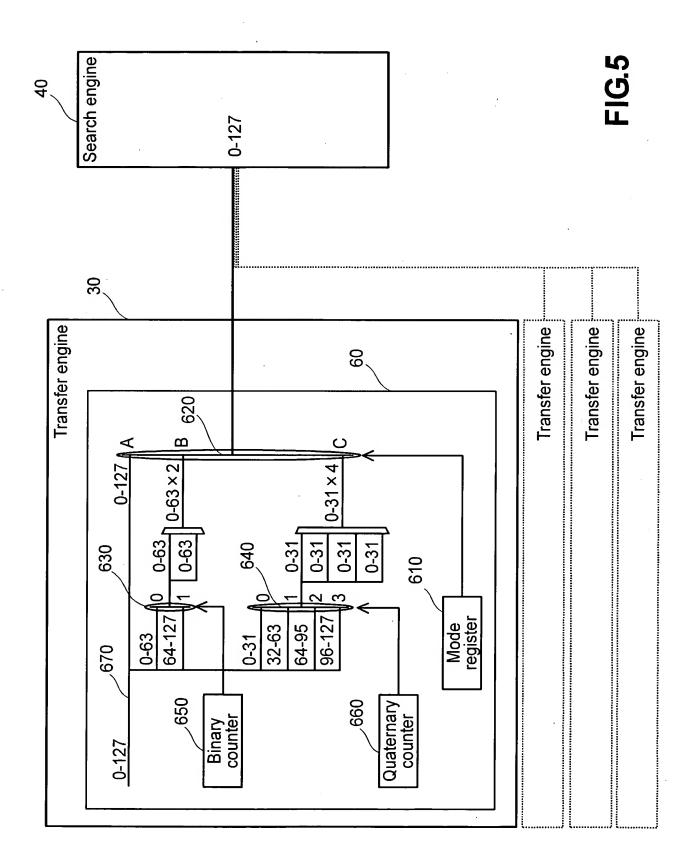
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Robert C. Colwell, Reg. No. 27,431 (650) 326-2400 Applicant: Takayuki MURANAKA, et al. Appln. No. 10/782,530 Atty Docket No. 16869P-105800US Confirmation No. 3235 Title: Network Routing Apparatus Sheet 6 of 10 Transfer engine #0 Transfer engine #3 Transfer engine #2 Transfer engine #1 39 0-127 8 Search engine 20 780 0-63 0-31 730 Output register 64-127 96-127 64-95 32-63 0-63 0-31 770 Mode register Quaternary counter 750 760 Binary counter

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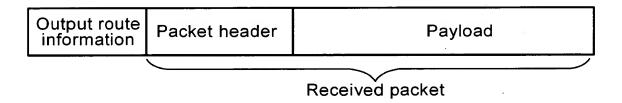
Title: Network Routing Apparatus

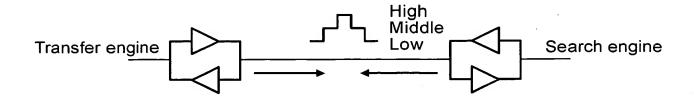
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FIG.7

Routing table			
Search key	Search results		
Destination IP address	Output switching engine No.	Output transfer engine No.	Output line No.
192.168.0.0	0	1	2
192.168.0.1	2	3	4

FIG.8





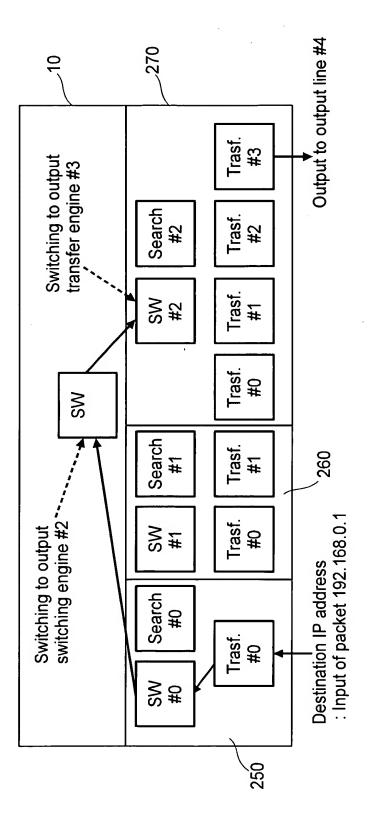
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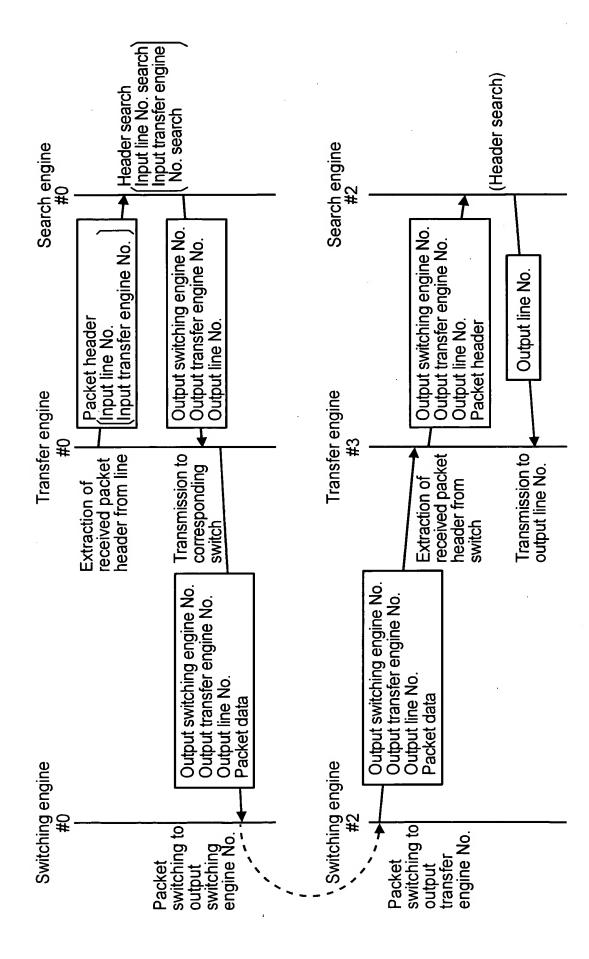
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